



Practitioner's Docket No. 1348/110

JFC
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Percival

Application No.: 10/683,853 Group Art Unit: 2188

Filed: October 10, 2003 Examiner: Namazi, M.

For: Method and System for Coherently Caching I/O Devices Across a Network

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT BEFORE MAILING DATE OF EITHER A FINAL ACTION OR NOTICE OF ALLOWANCE (37 C.F.R. SECTION 1.97(c))

NOTE: An information disclosure statement shall be considered by the Office if filed . . . before the mailing date of either (1) a final action under Section 1.113 or (2) a notice of allowance under Section 1.311, whichever occurs first, provided the statement is accompanied by either a statement as specified in paragraph (e) of Section 1.97 or the fee set forth in Section 1.17(p).

NOTE: "If a final action or notice of allowance is mailed in an application and later withdrawn, the application will be considered as not having had a final action or notice of allowance mailed for purposes of considering an information disclosure statement." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

NOTE: "If information submitted during the period set forth in 37 C.F.R. 1.97(c) with a certification is used in a new ground of rejection on unamended claims, the next Office action will not be made final since in this situation it is clear that applicant has submitted the information to the office promptly after it has become known and the information is being

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. SECTION 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

[x] deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
11/12/2004 KAL111 00000020 194972 10683853
01 FC:1006 180.00 DA

Date: November 8, 2004

FACSIMILE

[] transmitted by facsimile to the Patent and Trademark Office (703) _____.

Signature

Robert M. Asher

(type or print name of person certifying)

submitted prior to a final determination on patentability by the Office. However, the information submitted with a certification can be used in a new ground of rejection and the next Office action made final, [if the new ground of rejection was necessitated by amendment of the application by applicant. Where the information is submitted during this period with a fee, the examiner may use the information submitted, e.g., printed publication or evidence of public use, and make the next Office action final whether or not the claims have been amended, provided that no other new ground of rejection which was not necessitated by amendment to the claims is introduced by the examiner. See MPEP 706.07(a). If a new ground of rejection is introduced that is neither necessitated by an amendment to the claims nor based on the information submitted with the fee set forth in 37 C.F.R. 1.17(p), the Office action shall not be made final." Notice of April 20, 1992 (1138 O.G. 37-41, 39).

WARNING: "A petition for suspension of action to allow applicant time to submit an information disclosure statement will be denied as failing to present good and sufficient reasons, since 37 C.F.R. 1.97 provides adequate recourse for the timely submission of prior art for consideration by the examiner." Notice of July 6, 1992 (1141 O.G. 63).

TIME OF TRANSMITTAL OF ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

1. The information disclosure statement transmitted herewith is being filed *after* three months of the filing date of this national application or the date of entry of the national stage as set forth in Section 1.491 in an international application or after the mailing date of the first Office action on the merits, whichever event occurred last but *before* the mailing date of either:
 - (1) a final action under Section 1.113 or
 - (2) a notice of allowance under Section 1.311,whichever occurs first.

STATEMENT OR FEE

2. Accompanying this transmittal is
(check either A or B below)

A. a statement as specified in 37 C.F.R. Section 1.97(e).

OR

B. the fee set forth in 37 C.F.R. Section 1.17(p) for submission of an information disclosure statement under Section 1.97(c). (\$180.00).

FEE PAYMENT

(complete this item, if applicable)

3. Applicant elects the option to pay the fee set forth in 37 C.F.R. Section 1.17(p) for submission of an information disclosure statement under Section 1.97(c) (\$180.00).

Fee due \$ _____

METHOD OF PAYMENT OF FEE

4.

[] Attached is a check in the amount of \$ 180.00.

[x] Charge Account No. 19-4972 in the amount of \$ 180.00.

A duplicate of this request is attached.

If any additional fees are due, please charge Account #19-4972.



SIGNATURE OF PRACTITIONER

Reg. No. 30,445

Robert M. Asher

(type or print name of practitioner)

Bromberg & Sunstein LLP

125 Summer Street, 11th Floor

P.O. Address

Customer No.: 002101

Boston, MA 02110

01348/00110 345016.1



Practitioner's Docket No.

1348/110

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application

of _____

Inventor(s)

for _____

Title of invention

OR

In re application of: Percival

Application No.: 10/683,853

Group Art Unit: 2188

Filed: October 10, 2003

Examiner: Namazi, M.

For: Method and System for Coherently Caching I/O Devices Across a Network

**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

CERTIFICATE UNDER 37 C.F.R. § 1.8(a) and 1.10*

*(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)*

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

[x] deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

37 C.F.R. § 1.8(a)

37 C.F.R. § 1.10*

[x] with sufficient postage as first class mail.

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Mailing Label No. (**mandatory**)

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transmitted by facsimile to the Patent and Trademark Office.

Date: November 8, 2004


Signature

Robert M. Asher

(type or print name of person certifying)

(Supplemental Information Disclosure Statement [6-1]--page 1 of 8)

NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant within any one of the following time periods:

- (1) Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
- (2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
- (3) Before the mailing date of a first Office action on the merits; or
- (4) Before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114."

37 C.F.R. § 1.97(b).

NOTE: "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.F.R. § 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. § 1.56(c).

NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O. G. 13 -25 at 17.

WARNING: "No information disclosure statement maybe filed in a provisional application." 37 C.F.R. § 1.51(d).

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

(check sections forming a part of this statement: discard unused sections and number pages consecutively)

1. Preliminary Statements
2. FORMS PTO/SB/08A and 08B (formerly FORM PTO-1449)
3. Statement as to Information Not Found in Patents or Publications
4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5. Cumulative Patents or Publications
6. Copies of Listed Information Items Accompanying This Statement
7. Concise Explanation of Non-English Language Listed Information Items
 - 7A. EPO Search Report
 - 7B. English Language Version of EPO Search Report
8. Translation(s) of Non-English Language Documents
9. Concise Explanation of English Language Listed Information Items (Optional)
10. Identification of Person(s) Making This Information Disclosure Statement

NOTE: "Once the minimum requirements are met the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

Section 1. Preliminary Statements

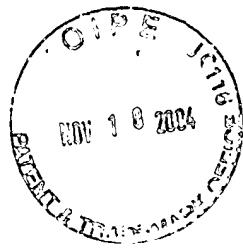
Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

In addition to the Form PTO/SB/08A, also enclosed are the following:

Declaration of Eric Dickman dated November 8, 2004



SECTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Percival **Attorney Docket:** 1348/110
Serial No: 10/683,853 **Art Group Unit:** 2188
Date Filed: October 10, 2003 **Examiner Name:** Namazi, M.
Invention: Method and System for Coherently Caching I/O Devices Across a Network

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

U.S. PATENT DOCUMENTS					
Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/Subclass
	CZ	5,276,835	1/04/1994	Mohan et al.	395/425
	DA	5,287,473	02/15/1994	Mohan et al.	395/425
	DB	5,297,269	03/22/1994	Donaldson et al.	395/425
	DC	5,303,362	04/12/1994	Butts, Jr. et al.	395/425
	DD	5,327,556	07/05/1994	Mohan et al.	365/600
	DE	5,499,367	3/12/1996	Bamford et. al.	365/600
	DF	5,787,300	07/28/1998	Wijaya	395/800

OTHER DOCUMENTS			
Examiner Initials	Reference Number	Author	Title of Article, Title of Journal, Volume Number, Page Numbers, Date
	DG	Steven et al.	<i>"The KSRI: Bridging the Gap Between Shared Memory and MPP's"</i> , IEEE©1993, pp. 285-294.
	DH	Satyanarayanan, M.	<i>"Scalable, Secure, and Highly Available Distributed File System"</i> , IEEE©1990, pp.9-21.
	DI	Howard et al.	<i>"Scale and Performance in a Distributed File System"</i> , ACM Transactions on Computer Systems, Vol. 6 No. 1, February 1988, pp. 51-81.
	DJ	Satyanarayanan, M	<i>"The Influence of Scale on Distributed File System Design"</i> , IEEE, Vol. 18, No.1 © January 1992, pp. 1-8.
	DK	Li et al.	<i>"Memory Coherence in Shared Virtual Memory Systems"</i> , ACM ©1986, pp. 229-239.
	DL	Mohan et al.	<i>"Recovery and Coherency-Control Protocols for Fast Intersystem Page Transfer and Fine-Granularity Locking in a Shared Disks Transaction Environment"</i> , IBM Research Report, March 15, 1991, pp. 1-31.

	DM	Mohan et al.	<i>"Efficient Locking and Caching of Data in the Multisystem Shared Disks Transaction Environment"</i> , IBM Research Report, August 21, 1991, pp. 1-15.
	DN	Mohan, et al.	<i>"Solutions to Hot Spot Problems in a Shared Disks Transaction Environment"</i> IBM Research Report, August 5, 1991, pp. 453-468.
	DO	Pirotte et al.	<i>"Advances in Database Technology-EDBT '92"</i> , 3 rd International Conference on Extending Database Technology, Vienna, Austria, March 23-27, 1992.
	DP	Atkinson et al.	<i>"Persistant Object Systems"</i> , Tarascon, 1994, pp. 217-234.
	DQ	Pink et al.	<i>"Low Latency File Access in a High Bandwidth Environment"</i> , pp. 117-122.
	DR	Morris et al.	<i>"Andrew: A Distributed Personal Computing Environment"</i> , Communications of the ACM, Vol. 29, No. 3, March 1986, pp. 184-201.
	DS	Levy et al.	<i>"Distributed File Systems: Concepts and Examples"</i> , ACM Computing Surveys, Vol. 22, No. 4, December 1990, pp. 321-374.
	DT	Satyanarayanan, M	<i>"On the Influence of Scale in a Distributed System"</i> , IEEE, © 1988, pp. 10-18.
	DU	Leach et al.	<i>"The File System of an Integrated Local Network"</i> , ACM, ©1985 pp. 309-324.
	DV	Nelson et al.	<i>"Caching in the Sprite Network File System"</i> ACM Transactions on Computer Systems, Vol. 6, No. 1, February 1988, pp. 134-154.
	DW	Dahlin et al.	<i>"A Quantitative Analysis of Cache Policies for Scalable Network File Systems"</i> , Computer Science Division, University of California at Berkeley, 10 pp.
	DX	Feeley et al.	<i>"Implementing Global Memory Management in a Workstation Cluster"</i> , Department of Computer Science and Engineering, University of Washington and DEC Systems Research Center, 11 pp.
	DY	Raina	<i>"Virtual Shared Memory: A Survey of Techniques and Systems"</i> , Department of Computer Science, University of Bristol, United Kingdom, pp. 1-31.
	DZ	Keleher et al.	<i>"TreadMarks: Distributed Shared Memory on Standard Workstations and Operating Systems"</i> , Department of Computer Science, Rice University, 16 pp.
	EA	Molesky et al.	<i>"Efficient Locking for Shared Memory Database Systems"</i> , Department of Computer Science, University of Massachusetts, March 1994, 28 pp.
	EB	Kredel et al.	<i>"Oracle on the KSRI Parallel Computer"</i> , Computing Center, University of Mannheim, August 1994, pp. 1-8.
	EC	Tseng et al.	<i>"Parallel Database Processing on the KSRI Computer"</i> , ACM © 1993, pp. 453-455.
	ED	Larus, J.	<i>"Compiling for Shared-Memory and Message-Passing Computer"</i> , Computer Sciences Department, University of Wisconsin, November 12, 1993, pp. 1-14.

	EE	Carter, B.	<i>"Efficient Distributed Shared Memory Based on Multi-Protocol Release Consistency"</i> , Thesis Paper, Rice University, September 1993, 128 pp.
	EF	Kent, C.	<i>"Cache Coherence in Distributed Systems"</i> , Digital Western Research Laboratory, © 1986, 1987, pp. 90.
	EG	Johnson	<i>"Squeezing Top Performance from an AXP Server"</i> , Johnson, DEC Professional, Vol. 12, Issue 4, April, 1993.

Examiner Signature: _____

Date Considered: _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if *not* in conformance and not considered. Include copy of this form with next communication to applicant.

Section 6. Copies of Listed Information Items Accompanying This Statement

NOTE: *37 C.F.R. section 1.98(a)(2) requires that any information disclosure statement filed under section 1.97 shall include: "A legible copy of: (i) Each U.S. and foreign patent; (ii) Each publication or that portion which caused it to be listed; and (iii) All other information or that portion which caused it to be listed, except that no copy of a U.S. patent application need be included . . ."*

NOTE: *The wording in section 1.98(a)(2)(iii) makes it clear that the requirement to submit a copy of each item of information listed in an information disclosure statement does not apply to the citation of a U.S. patent application. Notice of January 9, 1992, 1135 O.G. 13-25, at 14.*

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

(complete the following, if applicable)

[x]Exception(s) to above:

[]Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

[]Cumulative patents or publications identified in Section 5.

U.S. patent citations are not included pursuant to 37 CFR 1.98 9(a)(2)(i) and 37 CFR 1.491(b), in which the USPTO waived the requirement for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003.

Section 10. Identification of Person(s) Making This Information Disclosure Statement

The person making this statement is

(check each applicable item)

(a) the inventor(s) who signs below

SIGNATURE OF INVENTOR

(type or print name of inventor who is signing)

(b) an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c))

SIGNATURE OF INVENTOR

(type or print name of inventor who is signing)

(c) the practitioner who signs below on the basis of the information:

(check each applicable item)

- supplied by the inventor(s).
- supplied by an individual associated with the filing and prosecution of this application. (37 C.F.R. § 1.56(c))
- in the practitioner's file.

Reg. No.: 30,445

SIGNATURE OF PRACTITIONER

Tel. No.: (617) 443-9292

Robert M. Asher

(type or print name of person certifying)

Customer No.: 002101

Bromberg & Sunstein LLP

125 Summer Street, Boston, MA 02110

(Information Disclosure Statement-Section 10. Identification of Person(s) Making This Information Disclosure Statement [6-1]-page 8 of 8)
01348/00110 344509.1